

WHAT IS CLAIMED IS:

- 1 1. A waterproof splitter box comprising:
 - 2 a hollow casing with threaded sleeves integrally extending out of the hollow
 - 3 casing;
 - 4 plastic inserts each securely received in a corresponding one of the threaded
 - 5 sleeves and defined therein a path;
 - 6 rubber plugs each received in the path of a corresponding one of the plastic
 - 7 inserts;
 - 8 connecting blades each extending into a corresponding one of the plastic inserts
 - 9 and out of the rubber plug which is received in the plastic insert; and
 - 10 signal wires each extending and connecting to a corresponding one of the
 - 11 connecting blades for transmitting a signal,
 - 12 whereby engagement between the connecting blade and the rubber plug
 - 13 prevents moisture from entering the hollow casing so that the transmitted signal is
 - 14 steady.
- 15 2. The waterproof splitter box as claimed in claim 1, wherein the mediate
- 16 portion of the rubber plug has a diameter larger than a diameter of the bottom portion
- 17 and the diameter of the bottom portion is slightly smaller than a diameter of the
- 18 corresponding threaded sleeve such that the bottom portion is able to be received in the
- 19 corresponding threaded sleeve.
- 20 3. The waterproof splitter box as claimed in claim 2, wherein the top portion has
- 21 a diameter larger than the diameter of the bottom portion yet smaller than the diameter
- 22 of the mediate portion,
- 23 the threaded sleeve has a step formed on an inner face of the threaded sleeve to

1 correspond to the top portion of the rubber plug such that after the rubber plug is
2 received in the corresponding threaded sleeve, the rubber plug is secured.

3 4. The waterproof splitter box as claimed in claim 1, wherein the plastic insert
4 has ribs longitudinally formed on an outer periphery of the plastic insert such that after
5 the plastic insert is received in the corresponding threaded sleeve, friction between the
6 inner face of the threaded sleeve and the plastic insert is enhanced and thus the plastic
7 insert is secured inside the threaded sleeve.

8 5. The waterproof splitter box as claimed in claim 3, wherein the plastic insert
9 has ribs longitudinally formed on an outer periphery of the plastic insert such that after
10 the plastic insert is received in the corresponding threaded sleeve, friction between the
11 inner face of the threaded sleeve and the plastic insert is enhanced and thus the plastic
12 insert is secured inside the threaded sleeve.

13 6. The waterproof splitter box as claimed in claim 1, wherein the plastic insert
14 has positioning plates formed on an inner periphery of the plastic insert such that after
15 the extension of the connecting blade, the positioning plates are able to secure the
16 connecting blade inside the plastic insert.

17 7. The waterproof splitter box as claimed in claim 3, wherein the plastic insert
18 has positioning plates formed on an inner periphery of the plastic insert such that after
19 the extension of the connecting blade, the positioning plates are able to secure the
20 connecting blade inside the plastic insert.

21 8. The waterproof splitter box as claimed in claim 4, wherein the plastic insert
22 has positioning plates formed on an inner periphery of the plastic insert such that after
23 the extension of the connecting blade, the positioning plates are able to secure the
24 connecting blade inside the plastic insert.

25 9. The waterproof splitter box as claimed in claim 5, wherein the plastic insert

1 has positioning plates formed on an inner periphery of the plastic insert such that after
2 the extension of the connecting blade, the positioning plates are able to secure the
3 connecting blade inside the plastic insert.

4 10. The waterproof splitter box as claimed in claim 1, the rubber plug has a
5 passage longitudinally defined through the rubber plug to expedite the extension of the
6 connecting blade,

7 the bottom portion of the rubber plug is configured in such a way that after the
8 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
9 is immovable relative to the plastic insert.

10 11. The waterproof splitter box as claimed in claim 2, the rubber plug has a
11 passage longitudinally defined through the rubber plug to expedite the extension of the
12 connecting blade,

13 the bottom portion of the rubber plug is configured in such a way that after the
14 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
15 is immovable relative to the plastic insert.

16 12. The waterproof splitter box as claimed in claim 3, the rubber plug has a
17 passage longitudinally defined through the rubber plug to expedite the extension of the
18 connecting blade,

19 the bottom portion of the rubber plug is configured in such a way that after the
20 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
21 is immovable relative to the plastic insert.

22 13. The waterproof splitter box as claimed in claim 4, the rubber plug has a
23 passage longitudinally defined through the rubber plug to expedite the extension of the
24 connecting blade,

25 the bottom portion of the rubber plug is configured in such a way that after the

1 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
2 is immovable relative to the plastic insert.

3 14. The waterproof splitter box as claimed in claim 5, the rubber plug has a
4 passage longitudinally defined through the rubber plug to expedite the extension of the
5 connecting blade,

6 the bottom portion of the rubber plug is configured in such a way that after the
7 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
8 is immovable relative to the plastic insert.

9 15. The waterproof splitter box as claimed in claim 6, the rubber plug has a
10 passage longitudinally defined through the rubber plug to expedite the extension of the
11 connecting blade,

12 the bottom portion of the rubber plug is configured in such a way that after the
13 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
14 is immovable relative to the plastic insert.

15 16. The waterproof splitter box as claimed in claim 7, the rubber plug has a
16 passage longitudinally defined through the rubber plug to expedite the extension of the
17 connecting blade,

18 the bottom portion of the rubber plug is configured in such a way that after the
19 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
20 is immovable relative to the plastic insert.

21 17. The waterproof splitter box as claimed in claim 8, the rubber plug has a
22 passage longitudinally defined through the rubber plug to expedite the extension of the
23 connecting blade,

24 the bottom portion of the rubber plug is configured in such a way that after the
25 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug

1 is immovable relative to the plastic insert.

2 18. The waterproof splitter box as claimed in claim 9, the rubber plug has a
3 passage longitudinally defined through the rubber plug to expedite the extension of the
4 connecting blade,

5 the bottom portion of the rubber plug is configured in such a way that after the
6 bottom portion of the rubber plug is received in the hollow plastic insert, the rubber plug
7 is immovable relative to the plastic insert.